(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property **Organization**

International Bureau



(43) International Publication Date 19 August 2004 (19.08.2004)

PCT

(10) International Publication Number WO 2004/069610 A1

(51) International Patent Classification7: 21/22, 22/26

B60R 21/18,

(21) International Application Number:

PCT/US2003/003339

(22) International Filing Date: 3 February 2003 (03.02.2003)

(25) Filing Language:

(26) Publication Language:

English

(71) Applicant (for US only): Z/C HOLDING COMPANY [US/US]; 9971 S., W. 128th Street, Miami, FL 33176 (US).

(72) Inventor; and

(75) Inventor/Applicant (for US only): Bernard, J. [US/US]; 9971 S.W. 128th Street, Miami, FL 33176 (US).

(74) Agent: ROSENTHAL, Robert, E.; Duane Morris LLP, One Liberty Place, Philadelphia, PA 19103 (US).

(81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

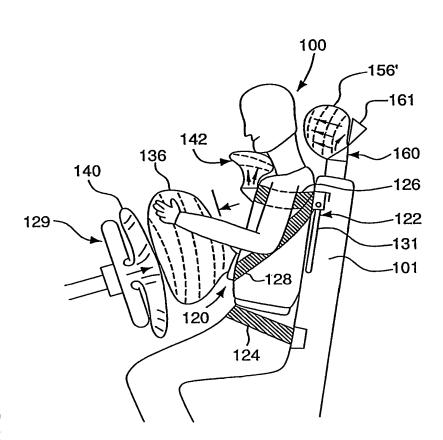
(84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: INFLATABLE RESTRAINT ASSEMBLY FOR VEHICLES



A plurality of (57) Abstract: inflatable members (136, 140, 142, 156') are mounted at a plurality of strategic locations relative to a vehicle occupant. The occupant is restrained by a harness including a lap belt segment (124), a chest belt segment (126) and a diagonal belt segment (128). Upon the vehicle being impacted, a central processor automatically inflates the inflatable members (136, 140, 142, 156'). The processor is connected to valve assemblies that regulate air flow both into and out of the inflatable members (136, 140, 142, 156'), and is further responsive to a pressure sensor assembly, so as to actively regulate pressure within the inflatable members.

